

FOS CDR RID Report

Date Last Modified 12/14/95

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Document Plan & Sked.

RID ID CDR 24

Review FOS

Originator Ref

Priority 2

Section

Page

Figure Table

Category Name Planning & Scheduling Design

Actionee ECS

Sub Category

Subject Activity - Activity Scheduling

Description of Problem or Suggestion:

Activities vs. Modes vs. States.

Confusing Method.

Unending Activities

Activity must be in Mode/State to drive resource.

Originator's Recommendation

Change Activity definition to provide short Activity which changes State/Mode of resource. Track Mode/State other than Activity. Activity instantaneously changes resource Mode/State. Mode/State should be tracked independently of Activity.

GSFC Response by:

GSFC Response Date

HAIS Response by: Bill Moore

HAIS Schedule

HAIS R. E. Scott Carter

HAIS Response Date 11/10/95

A mode characterizes an instrument or subsystem's operational state by representing power consumption, data rate and restrictions in operational sequencing. During schedule development, mode changes are caused by the scheduling of activities into the mission plan. The modeling of the instrument or subsystem's mode is maintained within its associated resource (refer to class RResource) and tracked separately from the activity. Activities are used to transition resources into different modes.

In order to allow various combinations of mode transitions to occur at different times, the activity definition will be modified to include mode transition times. These times will be defined as offsets to either the activity start or end, with no limit to the number of changes allowed in each activity. Normally, the number of mode changes caused by an activity will be 1 or 2.

For further information on activity and mode definitions, reference memo "Sample Scheduling Data Needs" dated 11/14/95 from FOS Scheduling. In addition, concerns with regard to activities are currently being addressed as an action item coming out of the CDR Constraints Splinter session.

Status Closed

Date Closed 12/14/95

Sponsor Johns

Attachment if any
